

*Memorandum*25X1A TO : DC/GSD/ 

DATE: 17 November 1964

FROM : DAD/S&amp;D

SUBJECT:

In all the various discussions of recording technique for the VA-12, I have not heard any discussion of use of level in the coding. Since the data is highly redundant, it would seem to me that occasional amplitude errors due to tape faults, etc., should not be too serious. The number of bits then can readily be doubled or tripled if only two or three level coding is employed.

If five levels were used information could be planned in five parallel sets still occupying only 25 space widths across a one inch tape. This would result in a reduction of tape speed by a factor of five.

Please let me have your views on this.